

# Edward J. Anthony

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

439  
papers

21,161  
citations

70  
h-index

130  
g-index

486  
ext. papers

24,363  
ext. citations

7.5  
avg, IF

7.36  
L-index

#	Paper	IF	Citations
439	Sorption-enhanced propane partial oxidation hydrogen production for solid oxide fuel cell (SOFC) applications. <i>Energy</i> , <b>2022</b> , 247, 123463	7.9	0
438	The role of H <sub>2</sub> O in NO formation and reduction during oxy-steam combustion of bituminous coal char. <i>Combustion and Flame</i> , <b>2022</b> , 237, 111883	5.3	0
437	Particulate matter formation mechanism during pressurized air-and oxy-coal combustion in a 10kWth fluidized bed. <i>Fuel Processing Technology</i> , <b>2022</b> , 225, 107064	7.2	4
436	The role of H <sub>2</sub> O in structural nitrogen migration during coal devolatilization under oxy-steam combustion conditions. <i>Fuel Processing Technology</i> , <b>2022</b> , 225, 107040	7.2	3
435	Gasification Decoupling during Pressurized Oxy-Coal Combustion by the Isotope Tracer Method. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 3239-3246	4.1	0
434	Insight into the Mechanism and Effect of H <sub>2</sub> O on CaO Sulfation by Density Functional Theory. <i>Energy &amp; Fuels</i> , <b>2022</b> , 36, 3749-3759	4.1	
433	A Novel Method for the Estimation of Higher Heating Value of Municipal Solid Wastes. <i>Energies</i> , <b>2022</b> , 15, 2593	3.1	
432	Kinetics, Product Evolution, and Mechanism for the Pyrolysis of Typical Plastic Waste. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 91-103	8.3	5
431	High-temperature filtration demonstration applying Fe-Al intermetallic membrane for a 410t/h scale coal-fired power plants. <i>Fuel Processing Technology</i> , <b>2022</b> , 233, 107312	7.2	0
430	Chemical Looping Technology <b>2022</b> , 1689-1723		
429	Oxy-fuel Firing Technology for Power Generation and Heat and Steam Production <b>2022</b> , 1625-1651		
428	The combined effect of SO <sub>2</sub> and H <sub>2</sub> O on CO <sub>2</sub> capture performance by calcium looping. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2021</b> , 54, 101798	7.6	0
427	A theoretical exploration of the effect and mechanism of CO on NO <sub>2</sub> heterogeneous reduction over carbonaceous surfaces. <i>Fuel</i> , <b>2021</b> , 290, 120102	7.1	5
426	The effect of HO on the sulfation of Havelock limestone under oxy-fuel conditions in a thermogravimetric analyser. <i>Turkish Journal of Chemistry</i> , <b>2021</b> , 45, 452-462	1	
425	Catalysts of Ordered Mesoporous Alumina with a Large Pore Size for Low-Temperature Hydrolysis of Carbonyl Sulfide. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 8895-8908	4.1	4
424	Bed-to-tube heat transfer characteristics with an immersed horizontal tube in the pressurized fluidized bed at high temperature. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 124, 105270	5.8	2
423	Movement and combustion characteristics of densified rice hull pellets in a fluidized bed combustor at elevated pressures. <i>Fuel</i> , <b>2021</b> , 294, 120421	7.1	2

4 <sup>22</sup>	Attrition of high ash Ekibastuz coal in a bench scale fluidized bed rig under O <sub>2</sub> /N <sub>2</sub> and O <sub>2</sub> /CO <sub>2</sub> environments. <i>Fuel Processing Technology</i> , <b>2021</b> , 216, 106775	7.2	2
4 <sup>21</sup>	Preparation and Characterization of Lime/Coal Ash Sorbents for Sequential CO <sub>2</sub> and SO <sub>2</sub> Capture at High Temperature. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 10669-10679	4.1	1
4 <sup>20</sup>	Heat transfer characteristics of horizontal tubes in the dilute phase of the pressurized fluidized bed. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 126, 105370	5.8	1
4 <sup>19</sup>	The effect of HCl and steam on cyclic CO <sub>2</sub> capture performance in calcium looping systems. <i>Chemical Engineering Science</i> , <b>2021</b> , 242, 113762	4.4	7
4 <sup>18</sup>	Metal-oxide stabilized CaO/CuO composites for the integrated Ca/Cu looping process. <i>Chemical Engineering Journal</i> , <b>2021</b> , 403, 126330	14.7	10
4 <sup>17</sup>	Development and validation of a novel process model for fluidized bed combustion: Application for efficient combustion of low-grade coal. <i>Canadian Journal of Chemical Engineering</i> , <b>2021</b> , 99, 1510-1519	2.3	1
4 <sup>16</sup>	Hybrid-functional material for sorption-enhanced hydrogen-rich syngas production from biomass: Effect of material preparation process. <i>Biomass and Bioenergy</i> , <b>2021</b> , 144, 105886	5.3	5
4 <sup>15</sup>	Molten shell-activated, high-performance, un-doped Li <sub>4</sub> SiO <sub>4</sub> for high-temperature CO <sub>2</sub> capture at low CO <sub>2</sub> concentrations. <i>Chemical Engineering Journal</i> , <b>2021</b> , 408, 127353	14.7	6
4 <sup>14</sup>	Vaporization model of arsenic during single-particle coal combustion: Numerical simulation. <i>Fuel</i> , <b>2021</b> , 287, 119412	7.1	6
4 <sup>13</sup>	Effects of non-isothermal flow on groundwater recharge in a semi-arid region. <i>Hydrogeology Journal</i> , <b>2021</b> , 29, 541-549	3.1	2
4 <sup>12</sup>	Oxy-fuel Firing Technology for Power Generation and Heat and Steam Production <b>2021</b> , 1-27		
4 <sup>11</sup>	The Gas Interchange between Bubble and Emulsion Phases in a Pressurized Fluidized Bed by Computational Fluid Dynamics Simulations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 4142-4152	3.9	1
4 <sup>10</sup>	Salix psammophila afforestations can cause a decline of the water table, prevent groundwater recharge and reduce effective infiltration. <i>Science of the Total Environment</i> , <b>2021</b> , 780, 146336	10.2	4
4 <sup>09</sup>	Commutative encryption and watermarking based on SVD for secure GIS vector data. <i>Earth Science Informatics</i> , <b>2021</b> , 14, 2249	2.5	1
4 <sup>08</sup>	Chemical Looping Technology <b>2021</b> , 1-35		
4 <sup>07</sup>	Rational design of porous Sn nanospheres/N-doped carbon nanofibers as an ultra-stable potassium-ion battery anode material. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 5740-5750	13	14
4 <sup>06</sup>	A ligand-based ELISA for detection of soluble asialoglycoprotein receptor in human serum. <i>Journal of Carbohydrate Chemistry</i> , <b>2021</b> , 40, 440-453	1.7	
4 <sup>05</sup>	Efficient Electrocatalytic Nitrogen Reduction to Ammonia on Ultrafine Sn Nanoparticles.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 59834-59842	9.5	3

404	Preparation and Characterisation of Activated Carbon from Palm Mixed Waste Treated with Trona Ore. <i>Molecules</i> , <b>2020</b> , 25,	4.8	11
403	Catalytic Fast Pyrolysis of Sewage Sludge over HZSM-5: A Study of Light Aromatics, Coke, and Nitrogen Migration under Different Atmospheres. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 17537-17545	3.9	4
402	Mesoporous Nitrogen-Doped Carbon Nanospheres as Sulfur Matrix and a Novel Chelate-Modified Separator for High-Performance Room-Temperature Na-S Batteries. <i>Small</i> , <b>2020</b> , 16, e1907464	11	24
401	The emission characteristic of particulate matter in the spray-and-scattered-bubble process during ammonia desulfurization: Experiments, mechanisms and prospects. <i>Journal of Cleaner Production</i> , <b>2020</b> , 269, 122466	10.3	2
400	Dihydromethysticin, a natural molecule from Kava, suppresses the growth of colorectal cancer via the NLRC3/PI3K pathway. <i>Molecular Carcinogenesis</i> , <b>2020</b> , 59, 575-589	5	5
399	Municipal solid waste management and greenhouse gas emissions at international airports: A case study of Astana International Airport. <i>Journal of Air Transport Management</i> , <b>2020</b> , 85, 101789	5.1	7
398	Recent advances in carbon dioxide utilization. <i>Renewable and Sustainable Energy Reviews</i> , <b>2020</b> , 125, 109799	16.2	146
397	Ash deposition during pressurized oxy-fuel combustion of Zhundong coal in a lab-scale fluidized bed. <i>Fuel Processing Technology</i> , <b>2020</b> , 204, 106411	7.2	12
396	Lamella-nanostructured eutectic zinc-aluminum alloys as reversible and dendrite-free anodes for aqueous rechargeable batteries. <i>Nature Communications</i> , <b>2020</b> , 11, 1634	17.4	195
395	High-performance N, P-CNL nanocomposites as catalyst for oxygen reduction reaction in fuel cell. <i>International Journal of Energy Research</i> , <b>2020</b> , 44, 4851-4860	4.5	8
394	Sulfation of limestone under O <sub>2</sub> /H <sub>2</sub> O combustion conditions in circulating fluidized bed. <i>International Journal of Greenhouse Gas Control</i> , <b>2020</b> , 95, 102979	4.2	6
393	Porous MgO-stabilized CaO-based powders/pellets via a citric acid-based carbon template for thermochemical energy storage in concentrated solar power plants. <i>Chemical Engineering Journal</i> , <b>2020</b> , 390, 124163	14.7	23
392	Recent advances on kinetics of carbon dioxide capture using solid sorbents at elevated temperatures. <i>Applied Energy</i> , <b>2020</b> , 267, 114874	10.7	19
391	Formation and Reduction of NO <sub>2</sub> in Fixed Bed Combustion of Coal Char under OxyFuel Conditions: Experimental and Density Functional Theory Analysis. <i>Energy &amp; Fuels</i> , <b>2020</b> , 34, 6326-6337	4.7	3
390	Applying machine learning algorithms in estimating the performance of heterogeneous, multi-component materials as oxygen carriers for chemical-looping processes. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124072	14.7	26
389	Mineral and Heavy Metal Composition of Oil Shale Ash from Oxyfuel Combustion. <i>ACS Omega</i> , <b>2020</b> , 5, 32498-32506	3.9	1
388	The effect of H <sub>2</sub> O on formation mechanism of arsenic oxide during arsenopyrite oxidation: Experimental and theoretical analysis. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123648	14.7	12
387	Investigation of the apparent kinetics of air and oxy-fuel biomass combustion in a spout fluidised-bed reactor. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 153, 276-283	5.5	6

386	Alkali metal bifunctional catalyst-sorbents enabled biomass pyrolysis for enhanced hydrogen production. <i>Renewable Energy</i> , <b>2020</b> , 148, 168-175	8.1	17
385	Characterization of solid char produced from pyrolysis of the organic fraction of municipal solid waste, high volatile coal and their blends. <i>Energy</i> , <b>2020</b> , 191, 116562	7.9	18
384	Process and Economic Evaluation of an Onboard Capture System for LNG-Fueled CO2 Carriers. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 6951-6960	3.9	8
383	Suppressed Shuttle via Inhibiting the Formation of Long-Chain Lithium Polysulfides and Functional Separator for Greatly Improved Lithium/Organosulfur Batteries Performance. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1902695	21.8	15
382	Developments in calcium/chemical looping and metal oxide redox cycles for high-temperature thermochemical energy storage: A review. <i>Fuel Processing Technology</i> , <b>2020</b> , 199, 106280	7.2	61
381	Hollow N-doped carbon nanofibers provide superior potassium-storage performance. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 4187-4198	5.1	4
380	Process simulations of blue hydrogen production by upgraded sorption enhanced steam methane reforming (SE-SMR) processes. <i>Energy Conversion and Management</i> , <b>2020</b> , 222, 113144	10.6	38
379	Alkaline pyrolysis of anaerobic digestion residue with selective hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 20933-20943	6.7	3
378	COUP-TFII promotes metastasis and epithelial-to-mesenchymal transition through upregulating Snail in human intrahepatic cholangiocarcinoma. <i>Acta Biochimica Et Biophysica Sinica</i> , <b>2020</b> , 52, 1247-1256	2.8	8
377	High CO2 absorption in new amine based-transition-temperature mixtures (deep eutectic analogues) and reporting thermal stability, viscosity and surface tension: Response surface methodology (RSM). <i>Journal of Molecular Liquids</i> , <b>2020</b> , 316, 113863	6	9
376	Ru-Doping Enhanced Electrocatalysis of Metal-Organic Framework Nanosheets toward Overall Water Splitting. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 17091-17096	4.8	16
375	Advances in carbon capture, utilization and storage. <i>Applied Energy</i> , <b>2020</b> , 278, 115627	10.7	36
374	Hydrogen-rich energy recovery from microalgae (lipid-extracted) via steam catalytic gasification. <i>Algal Research</i> , <b>2020</b> , 52, 102102	5	8
373	Techno-economic analysis of low-carbon hydrogen production by sorption enhanced steam methane reforming (SE-SMR) processes. <i>Energy Conversion and Management</i> , <b>2020</b> , 226, 113530	10.6	17
372	Direct capture of carbon dioxide from air via lime-based sorbents. <i>Mitigation and Adaptation Strategies for Global Change</i> , <b>2020</b> , 25, 25-41	3.9	14
371	Simulation of a calcium looping CO2 capture process for pressurized fluidized bed combustion. <i>Canadian Journal of Chemical Engineering</i> , <b>2020</b> , 98, 75-83	2.3	3
370	Experimental study of a single char particle combustion characteristics in a fluidized bed under O2/H2O condition. <i>Chemical Engineering Journal</i> , <b>2020</b> , 382, 122942	14.7	22
369	Microemulsion-derived, nanostructured CaO/CuO composites with controllable particle grain size to enhance cyclic CO2 capture performance for combined Ca/Cu looping process. <i>Chemical Engineering Journal</i> , <b>2020</b> , 393, 124716	14.7	29

368	Effects of Ionic Liquid-Assisted Pretreatment of Heavy Metal-Contaminated Biomass on the Yield and Composition of Syngas Production Using Noncatalytic and Catalytic Pyrolysis and Gasification Processes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 18303-18312	8.3	2
367	Effects of the Inert Materials on the Stability of Ca-Based CO <sub>2</sub> Sorbents and the Synergy with Cement Manufacture. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 9996-10003	4.1	7
366	Enhancing hydrogen production from biomass pyrolysis by dental-wastes-derived sodium zirconate. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 23846-23855	6.7	23
365	Optimisation of a Quasi-Steady Model of a Free-Piston Stirling Engine. <i>Energies</i> , <b>2019</b> , 12, 72	3.1	9
364	Observation of simultaneously low CO, NO <sub>x</sub> and SO <sub>2</sub> emission during oxy-coal combustion in a pressurized fluidized bed. <i>Fuel</i> , <b>2019</b> , 242, 374-381	7.1	62
363	CO <sub>2</sub> /SO <sub>2</sub> emission reduction in CO <sub>2</sub> shipping infrastructure. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 88, 57-70	4.2	12
362	Experimental and Theoretical Investigation of Laser Pretreatment on Strengthening the Heterojunction between Carbon Fiber-Reinforced Plastic and Aluminum Alloy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 22005-22014	9.5	28
361	Enhanced reversible capability of a macroporous ZnMn <sub>2</sub> O <sub>4</sub> /C microsphere anode with a water-soluble binder for long-life and high-rate lithium-ion storage. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1535-1545	6.8	21
360	Structural and kinetic analysis of CO <sub>2</sub> sorption on NaNO <sub>2</sub> -promoted MgO at moderate temperatures. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 886-895	14.7	24
359	Vaporization model for arsenic during single-particle coal combustion: Model development. <i>Combustion and Flame</i> , <b>2019</b> , 205, 534-546	5.3	4
358	Simultaneous removal of SO <sub>2</sub> and NO <sub>x</sub> by a new combined spray-and-scattered-bubble technology based on preozonation: From lab scale to pilot scale. <i>Applied Energy</i> , <b>2019</b> , 242, 1528-1538	10.7	26
357	Synthesis of highly effective stabilized CaO sorbents via a sacrificial N-doped carbon nanosheet template. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9173-9182	13	23
356	Effect of H <sub>2</sub> O on the volatilization characteristics of arsenic during isothermal O <sub>2</sub> /CO <sub>2</sub> combustion. <i>International Journal of Greenhouse Gas Control</i> , <b>2019</b> , 83, 228-235	4.2	7
355	Fundamental studies of carbon capture using CaO-based materials. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 9977-9987	13	26
354	Biofuel Production Using Thermochemical Conversion of Heavy Metal-Contaminated Biomass (HMCB) Harvested from Phytoextraction Process. <i>Chemical Engineering Journal</i> , <b>2019</b> , 358, 759-785	14.7	57
353	Sorption of CO <sub>2</sub> on NaBr co-doped Li <sub>4</sub> SiO <sub>4</sub> ceramics: Structural and kinetic analysis. <i>Fuel Processing Technology</i> , <b>2019</b> , 195, 106143	7.2	8
352	CO <sub>2</sub> Capture Performance of Gluconic Acid Modified Limestone-Dolomite Mixtures under Realistic Conditions. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 7550-7560	4.1	9
351	Assessing bare-soil evaporation from different water-table depths using lysimeters and a numerical model in the Ordos Basin, China. <i>Hydrogeology Journal</i> , <b>2019</b> , 27, 2707-2718	3.1	5



350	Gasification of lipid-extracted microalgae biomass promoted by waste eggshell as CaO catalyst. <i>Algal Research</i> , <b>2019</b> , 42, 101601	5	21
349	A facile one-pot synthesis of CaO/CuO hollow microspheres featuring highly porous shells for enhanced CO <sub>2</sub> capture in a combined Ca/Cu looping process via a template-free synthesis approach. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 21096-21105	13	37
348	The combined effect of H <sub>2</sub> O and SO <sub>2</sub> on the simultaneous calcination/sulfation reaction in CFBs. <i>AIChE Journal</i> , <b>2019</b> , 65, 1256-1268	3.6	9
347	Modelling the simultaneous calcination/sulfation behavior of limestone under circulating fluidized bed combustion conditions. <i>Fuel</i> , <b>2019</b> , 257, 116072	7.1	5
346	Recycling waste-derived marble powder for CO <sub>2</sub> capture. <i>Chemical Engineering Research and Design</i> , <b>2019</b> , 132, 214-225	5.5	21
345	The effect of CO on the transformation of arsenic species: A quantum chemistry study. <i>Energy</i> , <b>2019</b> , 187, 116024	7.9	6
344	A Review of Chemicals to Produce Activated Carbon from Agricultural Waste Biomass. <i>Sustainability</i> , <b>2019</b> , 11, 6204	3.6	86
343	Combustion characteristics of lignite char in a fluidized bed under O <sub>2</sub> /N <sub>2</sub> , O <sub>2</sub> /CO <sub>2</sub> and O <sub>2</sub> /H <sub>2</sub> O atmospheres. <i>Fuel Processing Technology</i> , <b>2019</b> , 186, 8-17	7.2	26
342	Sulfur Enrichment in Particulate Matter Generated from a Lab-Scale Pressurized Fluidized Bed Combustor. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 603-611	4.1	10
341	A calcium looping process for simultaneous CO <sub>2</sub> capture and peak shaving in a coal-fired power plant. <i>Applied Energy</i> , <b>2019</b> , 235, 480-486	10.7	24
340	Long-term mineral transformation of Ca-rich oil shale ash waste. <i>Science of the Total Environment</i> , <b>2019</b> , 658, 1404-1415	10.2	9
339	A kinetic study on lignite char gasification with CO <sub>2</sub> and H <sub>2</sub> O in a fluidized bed reactor. <i>Applied Thermal Engineering</i> , <b>2019</b> , 147, 602-609	5.8	12
338	The simultaneous calcination/sulfation reaction of limestone under oxy-fuel CFB conditions. <i>Fuel</i> , <b>2019</b> , 237, 812-822	7.1	10
337	Post-Combustion Carbon Capture and Storage in Industry. <i>Energy, Environment, and Sustainability</i> , <b>2019</b> , 39-53	0.8	3
336	Alkaline Thermal Treatment of Cellulosic Biomass for H <sub>2</sub> Production Using Ca-Based Bifunctional Materials. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 1202-1209	8.3	7
335	Microalgae cultivation and metabolites production: a comprehensive review. <i>Biofuels, Bioproducts and Biorefining</i> , <b>2018</b> , 12, 304-324	5.3	44
334	Different effects of water molecules on CO oxidation with different reaction mechanisms. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 8341-8348	3.6	7
333	Probabilistic performance assessment of complex energy process systems - The case of a self-sustained sanitation system. <i>Energy Conversion and Management</i> , <b>2018</b> , 163, 74-85	10.6	12

332	Emissions from co-firing lignite and biomass in an oxy-fired CFBC. <i>Fuel Processing Technology</i> , <b>2018</b> , 173, 126-133	7.2	21
331	Review of arsenic behavior during coal combustion: Volatilization, transformation, emission and removal technologies. <i>Progress in Energy and Combustion Science</i> , <b>2018</b> , 68, 1-28	33.6	94
330	Demonstration of Polymorphic Spacing Strategy against Sintering: Synthesis of Stabilized Calcium Looping Absorbents for High-Temperature CO <sub>2</sub> Sorption. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 5443-5452	4.1	16
329	Extraordinary pseudocapacitive energy storage triggered by phase transformation in hierarchical vanadium oxides. <i>Nature Communications</i> , <b>2018</b> , 9, 1375	17.4	77
328	Computational fluid dynamic simulation of a sorption-enhanced palladium membrane reactor for enhancing hydrogen production from methane steam reforming. <i>Energy</i> , <b>2018</b> , 147, 884-895	7.9	37
327	The extent of sorbent attrition and degradation of ethanol-treated CaO sorbents for CO <sub>2</sub> capture within a fluidised bed reactor. <i>Fuel Processing Technology</i> , <b>2018</b> , 171, 198-204	7.2	7
326	Evolution of Water Structures on Stepped Platinum Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 604-611	3.8	4
325	Opportunities and challenges in sustainable treatment and resource reuse of sewage sludge: A review. <i>Chemical Engineering Journal</i> , <b>2018</b> , 337, 616-641	14.7	319
324	Migration and emission of mercury from circulating fluidized bed boilers co-firing petroleum coke and coal. <i>Fuel</i> , <b>2018</b> , 215, 638-646	7.1	17
323	Sulfur trioxide formation/emissions in coal-fired air- and oxy-fuel combustion processes: a review <b>2018</b> , 8, 402-428		22
322	Carbon capture and storage (CCS): the way forward. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 1062-1136	13.6	1368
321	Mesoporous MgO promoted with NaNO <sub>3</sub> /NaNO <sub>2</sub> for rapid and high-capacity CO <sub>2</sub> capture at moderate temperatures. <i>Chemical Engineering Journal</i> , <b>2018</b> , 332, 216-226	14.7	58
320	Flow characteristics in pressurized oxy-fuel fluidized bed under hot condition. <i>International Journal of Multiphase Flow</i> , <b>2018</b> , 108, 1-10	3.6	23
319	Enhanced hydrogen production from thermochemical processes. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 2647-2672	35.4	72
318	Estimation of bare soil evaporation for different depths of water table in the wind-blown sand area of the Ordos Basin, China. <i>Hydrogeology Journal</i> , <b>2018</b> , 26, 1693-1704	3.1	11
317	Cobaltic Core-Carbon Shell Nanoparticles/N-Doped Graphene Composites as Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Energy Technology</i> , <b>2018</b> , 6, 2282-2288	3.5	8
316	Kinetic analysis for cyclic CO capture using lithium orthosilicate sorbents derived from different silicon precursors. <i>Dalton Transactions</i> , <b>2018</b> , 47, 9038-9050	4.3	28
315	Impact of Flue Gas Compounds on Microalgae and Mechanisms for Carbon Assimilation and Utilization. <i>ChemSusChem</i> , <b>2018</b> , 11, 334-355	8.3	63



314	Design, process simulation and construction of a 100 kW pilot-scale CO <sub>2</sub> membrane rig: Improving in situ CO <sub>2</sub> capture using selective exhaust gas recirculation (S-EGR). <i>Journal of Natural Gas Science and Engineering</i> , <b>2018</b> , 50, 128-138	4.6	7
313	From waste to high value utilization of spent bleaching clay in synthesizing high-performance calcium-based sorbent for CO <sub>2</sub> capture. <i>Applied Energy</i> , <b>2018</b> , 210, 117-126	10.7	48
312	Selective-exhaust gas recirculation for CO <sub>2</sub> capture using membrane technology. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 649-659	9.6	13
311	CO <sub>2</sub> capture and attrition performance of competitive eco-friendly calcium-based pellets in fluidized bed <b>2018</b> , 8, 1124-1133		6
310	Zirconia incorporated calcium looping absorbents with superior sintering resistance for carbon dioxide capture from in situ or ex situ processes. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2733-2741	5.8	13
309	Scale-up challenges and opportunities for carbon capture by oxy-fuel circulating fluidized beds. <i>Applied Energy</i> , <b>2018</b> , 232, 527-542	10.7	43
308	CO <sub>2</sub> capture performance of calcium-based synthetic sorbent with hollow core-shell structure under calcium looping conditions. <i>Applied Energy</i> , <b>2018</b> , 225, 402-412	10.7	54
307	Self-activated, nanostructured composite for improved CaL-CLC technology. <i>Chemical Engineering Journal</i> , <b>2018</b> , 351, 1038-1046	14.7	47
306	Pilot testing of enhanced sorbents for calcium looping with cement production. <i>Applied Energy</i> , <b>2018</b> , 225, 392-401	10.7	31
305	QoS enhancement in space data communication: a network coding approach. <i>International Journal of Electronics</i> , <b>2017</b> , 104, 34-46	1.2	2
304	Fabrication and molecular dynamics analyses of highly thermal conductive reduced graphene oxide films at ultra-high temperatures. <i>Nanoscale</i> , <b>2017</b> , 9, 2340-2347	7.7	49
303	Nitrogen and sulfur conversion during pressurized pyrolysis under CO <sub>2</sub> atmosphere in fluidized bed. <i>Fuel</i> , <b>2017</b> , 189, 98-106	7.1	55
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301	Parametric Characterization of Air Gasification of Chlorella vulgaris Biomass. <i>Energy &amp; Fuels</i> , <b>2017</b> , 31, 2959-2969	4.1	44
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299	Biomass-based chemical looping technologies: the good, the bad and the future. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 1885-1910	35.4	248
298	Effect of steam hydration on reactivity and strength of cement-supported calcium sorbents for CO <sub>2</sub> capture <b>2017</b> , 7, 915-926		15
297	Spray-Dried Sodium Zirconate: A Rapid Absorption Powder for CO Capture with Enhanced Cyclic Stability. <i>ChemSusChem</i> , <b>2017</b> , 10, 2059-2067	8.3	27

296	High thermal stability of core-shell structures dominated by negative interface energy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 9253-9260	3.6	7
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290	Fugitive halocarbon emissions from working face of municipal solid waste landfills in China. <i>Waste Management</i> , <b>2017</b> , 70, 149-157	8.6	10
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288	Biomass Gasification <b>2017</b> , 205-216		14
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286	Equilibrium Modeling of Sorption-Enhanced Cogasification of Sewage Sludge and Wood for Hydrogen-Rich Gas Production with in Situ Carbon Dioxide Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 5993-6001	3.9	18
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284	Copper-based oxygen carriers supported with alumina/lime for the chemical looping conversion of gaseous fuels. <i>Journal of Energy Chemistry</i> , <b>2017</b> , 26, 891-901	12	8
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280	Fragmentation of biomass-templated CaO-based pellets. <i>Fuel</i> , <b>2017</b> , 187, 388-397	7.1	6
279	EKF-Based Joint Channel Estimation and Decoding Design for Non-Stationary OFDM Channel <b>2017</b> ,		10

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275	Calcium looping sorbents for CO2 capture. <i>Applied Energy</i> , <b>2016</b> , 180, 722-742	10.7	176
274	Attrition Study of Cement-Supported Biomass-Activated Calcium Sorbents for CO2 Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 9476-9484	3.9	17
273	A two-stages relay selection and resource allocation joint method for d2d communication system <b>2016</b> ,		14
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235	Chemical Looping Combustion <b>2015</b> , 1-27		
234	Oxy-Fuel Firing Technology for Power Generation <b>2015</b> , 1-24		
233	Fate of inorganic matter in entrained-flow slagging gasifiers: Fuel characterization. <i>Fuel Processing Technology</i> , <b>2014</b> , 118, 208-217	7.2	11
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177	Effects of impurities on CO <sub>2</sub> transport, injection and storage. <i>Energy Procedia</i> , <b>2011</b> , 4, 3071-3078	2.3	57
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175	SBA-15 supported Ni-Co bimetallic catalysts for enhanced hydrogen production during cellulose decomposition. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 522-530	21.8	64
174	Size Effect on Thermal Properties in Low-Dimensional Materials. <i>Key Engineering Materials</i> , <b>2010</b> , 444, 189-218	0.4	14
173	Carbonation of CaO-Based Sorbents Enhanced by Steam Addition. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 9105-9110	3.9	183
172	Enhancement of indirect sulphation of limestone by steam addition. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 8781-6	10.3	40
171	Oxidation of Mercury under Ultraviolet (UV) Irradiation. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 4351-4356	4.1	21

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169	Morphological Changes of Limestone Sorbent Particles during Carbonation/Calcination Looping Cycles in a Thermogravimetric Analyzer (TGA) and Reactivation with Steam. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 2768-2776	4.1	52
168	Agglomeration of Sorbent Particles during Sulfation of Lime in the Presence of Steam. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 6442-6448	4.1	11
167	Sintering and Formation of a Nonporous Carbonate Shell at the Surface of CaO-Based Sorbent Particles during CO <sub>2</sub> -Capture Cycles. <i>Energy &amp; Fuels</i> , <b>2010</b> , 24, 5790-5796	4.1	51
166	CO <sub>2</sub> Carrying Behavior of Calcium Aluminate Pellets under High-Temperature/High-CO <sub>2</sub> Concentration Calcination Conditions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 6916-6922	3.9	75
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162	A study on the activity of CaO-based sorbents for capturing CO <sub>2</sub> in clean energy processes. <i>Applied Energy</i> , <b>2010</b> , 87, 1453-1458	10.7	63
161	High CO <sub>2</sub> storage capacity in alkali-promoted hydrotalcite-based material: in situ detection of reversible formation of magnesium carbonate. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 12694-700	4.8	40
160	The calcium looping cycle for large-scale CO <sub>2</sub> capture. <i>Progress in Energy and Combustion Science</i> , <b>2010</b> , 36, 260-279	33.6	742
159	The effect of water on the sulphation of limestone. <i>Fuel</i> , <b>2010</b> , 89, 2628-2632	7.1	44
158	Artificial neural network model to predict slag viscosity over a broad range of temperatures and slag compositions. <i>Fuel Processing Technology</i> , <b>2010</b> , 91, 831-836	7.2	32
157	Changes in Limestone Sorbent Morphology during CaO-CaCO <sub>3</sub> Looping at Pilot Scale. <i>Chemical Engineering and Technology</i> , <b>2009</b> , 32, 425-434	2	24
156	Steam hydration/Reactivation of FBC ashes for enhanced in situ desulphurization. <i>Fuel</i> , <b>2009</b> , 88, 1092-1098	7.1	21
155	Influence of calcination conditions on carrying capacity of CaO-based sorbent in CO <sub>2</sub> looping cycles. <i>Fuel</i> , <b>2009</b> , 88, 1893-1900	7.1	148
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153	Simulation of entrained flow coal gasification. <i>Energy Procedia</i> , <b>2009</b> , 1, 503-509	2.3	19

152	Effect of Partial Carbonation on the Cyclic CaO Carbonation Reaction. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 9090-9096	3.9	27
151	Long-Term Behavior of CaO-Based Pellets Supported by Calcium Aluminate Cements in a Long Series of CO <sub>2</sub> Capture Cycles. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8906-8912	3.9	122
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148	Long-Term Calcination/Carbonation Cycling and Thermal Pretreatment for CO <sub>2</sub> Capture by Limestone and Dolomite. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 1437-1444	4.1	127
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146	CaO-based pellets supported by calcium aluminate cements for high-temperature CO <sub>2</sub> capture. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7117-22	10.3	155
145	Sintering and Reactivity of CaCO <sub>3</sub> -Based Sorbents for In Situ CO <sub>2</sub> Capture in Fluidized Beds under Realistic Calcination Conditions. <i>Journal of Environmental Engineering, ASCE</i> , <b>2009</b> , 135, 404-410	2	40
144	CO oxidation and the inhibition effects of halogen species in fluidised bed combustion. <i>Combustion Theory and Modelling</i> , <b>2009</b> , 13, 105-119	1.5	11
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141	Effect of Operating Conditions on SO <sub>2</sub> and NO <sub>x</sub> Emissions in Oxy-Fuel Mini-CFB Combustion Tests <b>2009</b> , 936-940		2
140	Hydration and Pelletization of CaCO <sub>3</sub> -Derived Sorbents for In-Situ CO <sub>2</sub> Capture <b>2009</b> , 569-575		3
139	Sulphation of CaO-Based Sorbent Modified in CO <sub>2</sub> Looping Cycles <b>2009</b> , 987-992		
138	Combustion Of Poultry-Derived Fuel in a CFBC <b>2009</b> , 271-276		
137	Role of the Water-Gas Shift Reaction in CO <sub>2</sub> Capture from Gasification Syngas Using Limestones <b>2009</b> , 540-548		
136	Investigation of Attempts to Improve Cyclic CO <sub>2</sub> Capture by Sorbent Hydration and Modification. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 2024-2032	3.9	130
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126	A discrete-pore-size-distribution-based gas-solid model and its application to the . <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 57-70	4.4	92
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91	Study of coal and coke ignition in fluidized beds. <i>Fuel</i> , <b>2006</b> , 85, 635-642	7.1	30
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68	A Simulation Study for Fluidized Bed Combustion of Petroleum Coke With CO <sub>2</sub> Capture <b>2003</b> , 603		4
67	In-Situ Capture of CO <sub>2</sub> in a Fluidized Bed Combustor <b>2003</b> , 133		13
66	A Discussion of the Temperature Maximum for Sulfur Capture Efficiency in Fluidized Bed Combustion Systems <b>2003</b> , 451		
65	The Behavior of Free Lime in CFBC Ashes <b>2003</b> , 191		3
64	Assessment of Sorbent Reactivation by Water Hydration for Fluidized Bed Combustion Application <b>2003</b> , 429		1
63	Petroleum Coke FBC Ash: A Detailed Look at Calcium in the Ash <b>2003</b> , 613		3

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31	The NO and N2O formation mechanism under circulating fluidized bed combustor conditions: From the single particle to the pilot-scale. <i>Canadian Journal of Chemical Engineering</i> , <b>1999</b> , 77, 275-283	2.3	26
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27	Study of Hydration During Curing of Residues From Coal Combustion With Limestone Addition. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , <b>1997</b> , 119, 89-95	2.6	14

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25	Petroleum Coke and Coal Start-Up Testing in Bubbling Fluidized Bed Combustors. <i>Journal of Energy Resources Technology, Transactions of the ASME, 1997</i> , 119, 96-102	2.6	2
24	The characterization of solid residues from PFBC boilers. <i>Canadian Journal of Chemical Engineering, 1997</i> , 75, 1115-1121	2.3	13
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